



Municipality of Brockton

Total cost to carry out this work as proposed: \$ 43,523.40
(Price to exclude taxes)

Earliest Dates you could do this work: August 12, 2019

Name of Bidder: TDI International Ag Inc. dba Eco Blue Sytems

Address of Bidder: 15 French Drive

Mono, ON L9W 5W1

Signature:  Geoff Corlett

Title: President

Date: June 27, 2019

TDI INTERNATIONAL AG INC.

15 French Drive, Mono, ON L9W 5W1

Tel: 519-940-9292 Fax: 519-938-8111

www.xgd.systems

MUNICIPALITY OF BROCKTON – Design & Build Soccer Field Drainage

The Larsen & Shaw Field is 100m x 60m, crowned with a west to east pitch. Due to the irrigation system and placement of existing drainage infrastructure, the drain lines will be installed in an East to West direction. To keep the overall cost minimized and yet still provide an effective drainage system, the design spacing is set at 3.35 meters.

Please refer to the attached drainage plan. The effective area drained will be 107m x 67m.

Pipe Specifications

Carrier pipe: 100mm diameter solid, dual-wall

Lateral pipe: 50mm diameter TurfFlow™ (by ADS/Hancor), micro-perforated without filter sock.

Trench Backfill

The trenches are to be backfilled with drainage sand meeting septic bed specifications, with minimum infiltration rate of 6 inches per hour.

Field Drainage Trenches

The trenches required to install the lateral drainage system will generally be:

- Width: 75mm
- Depth: 450mm
- Spacing: 3.35m

Equipment

Our fleet of drainage equipment is specifically designed for sport turf drainage installations. The trencher is operated by an automated laser grade control system thereby installing all pipe at a precise grade. All soil is conveyed into our dump trailers which run on a row of low pressure tires across the entire width of the trailer. The sand backfill is installed using our custom hopper trailer on floatation tires. There will be no damage to the field as a result of the drainage installation operation.

The 75mm width trench is backfilled to the surface with drainage sand and then each trench is seeded. The trench lines will infill during the Fall and will not be noticeable in the following Spring.

Field Aerification Option

We also offer a two-stage aerification application, deep tine verti-drain, which will shatter soil compaction layers. This is followed by hollow core aerification which helps reduce thatch build-up in the turf. The aerification cores are drag-matted into the field which will assist with the drainage trench and turf recovery.

The cost for this system is not included in this bid submission, but we can perform this for \$990.00 per field.



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Start & Completion Dates

The project will commence on August 12, or another date mutually agreed upon, and will be complete within five working days. It is best to provide a full four weeks of recovery time for the field before resuming soccer play.

Pricing

Supply & install complete drainage system \$43,523.40

Unit Prices

50mm perf w/ sand backfill	\$17.64 per lin. m.
100mm solid pipe	\$45.83 per lin. m.
Off-site disposal of excess soil	\$12.00 per cubic meter

Personnel

Project Manager – Cam Scott, has managed and overseen quality turf and drainage projects for 18 years

Site Superintendent – Brian O'Sullivan, resume attached including supervising the original construction of the Brockton fields.



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Cameron Scott Project Manager

Cameron Scott as Project Manager oversees Ontario projects completed by TDI International Ag Inc. dba Eco Blue Systems. Cameron's experience includes the successful completion of a wide range of construction work which has included conservation work, parks, golf courses, creek restoration, trails, buildings and athletic fields. His excellent communication and management skills makes him a valuable project team member.

Some examples of projects:

Town of Aurora (Sheppard's Bush Park Multi-Purpose Artificial Sports Field) ON
Sara Tienkamp, Operational Services, Parks Manager 905 727-3123, x3223

- Parks redevelopment
- \$1,418,610.58
- Completed 2018

The Town of Orangeville (Lions, Parkinson and Young Parks)
Ray Osmond, Director, Parks and Recreation

- Parks redevelopment
- \$1,761,693.20
- Completed November 2017

The Town of Collingwood (Mountaincroft Park Construction) ON
Rose Hewitson, Purchasing Officer

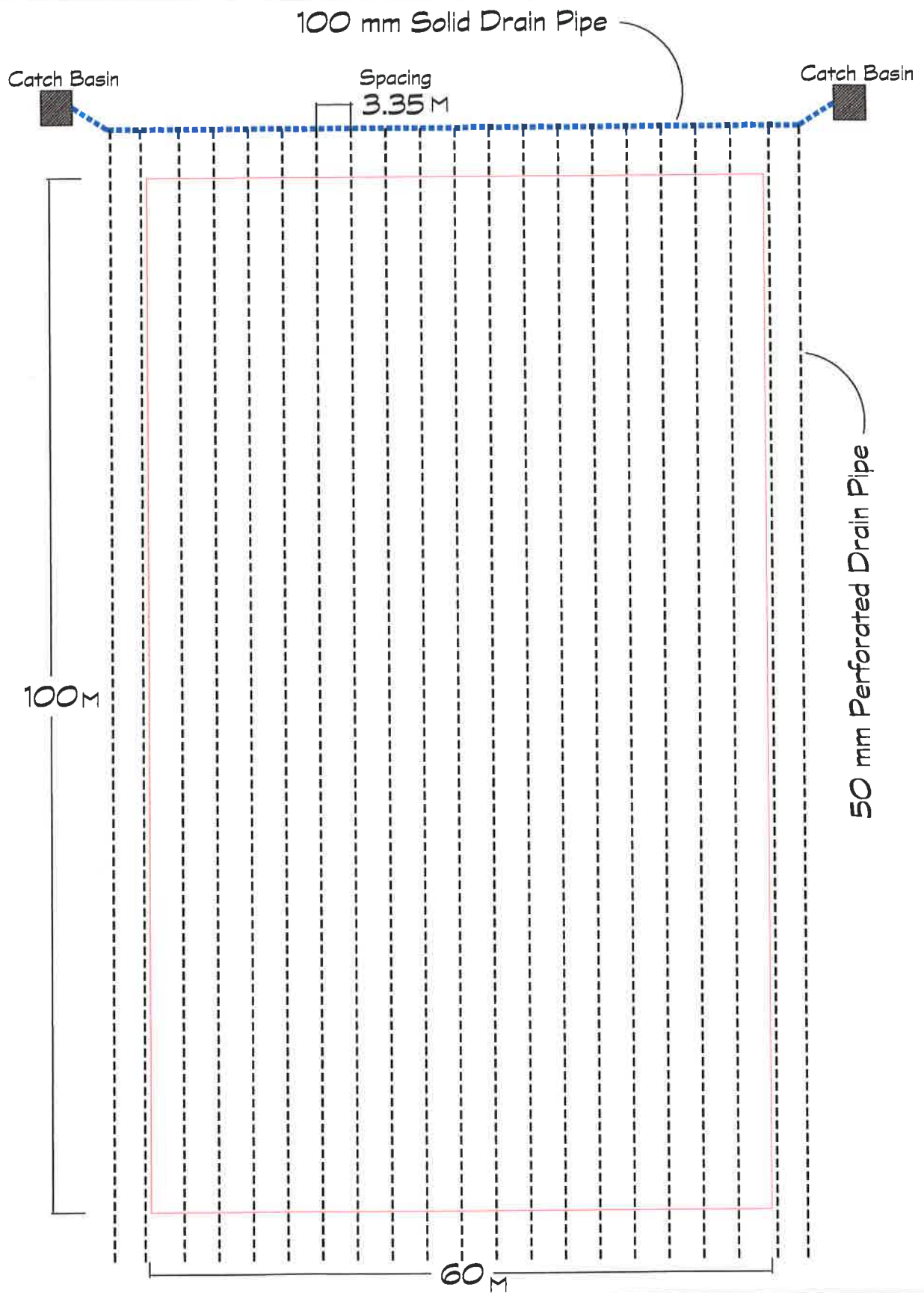
- New park / playground development
- \$595,495.45
- Completed November 2017

City of Markham (John Baird Woods Park) ON
Rosemarie Patano, Senior Construction Buyer, Purchasing

- Park development
- \$807,314.00
- Completed October 2016

Cameron Scott Page 1





The Corporation of the
Municipality Brockton

Bruce Power Regional Soccer Facility Park

Larson and Shaw Field # 1
Conceptual Drainage Plan

